

Problem Set 3**Calculus 3****Due 10/8/03**

Each problem is worth 5 points. For full credit indicate clearly how you reached your answer.

1. Find the point on the plane $2x + 3y + z = 12$ closest to the origin.
2. Find the lowest point(s) on the paraboloid $z = x^2 + y^2$ subject to the constraint $2x + 3y = 6$.